

WHAT IS CLAIMED IS:

1. A process for machining a wafer-like workpiece between two plates, in which material is abraded from the workpiece under the influence of an auxiliary substance supplied and of a ^{pressure}~~weight~~ acting on the workpiece, the process comprising:
reducing ~~a load from the weight~~ ^{the pressure} on the workpiece;
then increasing the ^{pressure}~~load~~ at least once during machining of the workpiece; and
reducing a supply of the auxiliary substance as the ^{pressure}~~load~~ is increased.
2. The process as claimed in claim 1, wherein the ^{pressure}~~load~~ is reduced by at least 80% of its original level.
3. The process as claimed in claim 1, wherein the supply of auxiliary substance is reduced to between 0 and 50% of its original level.
4. The process as claimed in claim 1, wherein the workpiece is machined between a lower working wheel and an

upper working wheel of a double-side polishing machine, with a polishing abrasive being supplied.

5. The process as claimed in claim 1, wherein the workpiece is machined between a lower working wheel and a carrier plate of a single-side polishing machine with a polishing abrasive being supplied.

6. The process as claimed in claim 1, wherein the workpiece is machined between a lower working wheel and an upper working wheel of a lapping machine with a lapping abrasive being supplied.

7. The process as claimed in claim 1, wherein the workpiece is a semiconductor wafer.

8. The process as claimed in claim 1, wherein the workpiece is subjected to the process together with other workpieces.